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TITLE: MANUFACTURE OF BIOLOGICAL SAMPLE FOR SCANNING  
ELECTRON MICROSCOPE, DEVICE THEREFOR AND BIOLOGICAL  
SAMPLE OBSERVING METHOD  
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ABSTRACT:

PURPOSE: To provide a manufacturing method of a biological sample for a scanning electron microscope without the deformation of the sample, a device therefor, and a biological sample observing method.

CONSTITUTION: A control device 14 sends a cooling signal to a power supply 16. As a result, a sample holder 11 positioned on a thermo-module is cooled, and a sample 12 is also cooled. The control of the control device 14 stopping the supply of the cooling signal at the time of -45deg;C is based on the data stored in a memory 15. The control device 14 sets the vacuum degree

of a  
sample chamber 2 to a low vacuum state between 0.01Torr and 2Torr,  
and the  
control device 14 sends a heating signal to the power supply 16. The  
heating  
temperature of the sample 12 gradually rises and stops when the  
temperature of  
the sample 12 reaches 15&deg;C. Upon terminating such treatment of  
the sample  
12, electron beams irradiate the sample 12 in the low vacuum state,  
and a  
sample image is displayed on a display device on the basis of the  
reflected  
electrons emitted from the sample 12.

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